

# 13.1 Review

Grade: 9th  
Subject: Earth Science  
Date: 3/4/13

Mar 4-9:48 AM

1 Molten rock underground is known as \_\_\_\_\_.

magma

Mar 4-9:50 AM

2 Dust-sized particles of hardened lava is \_\_\_\_\_.

ash

Mar 4-9:50 AM

3 Magma that is blasted into the air and hardens is \_\_\_\_\_ material.

pyroclastic

Mar 4-9:51 AM

4 A crack or opening in the Earth's crust is a \_\_\_\_\_.

vent or fissure

Mar 4-9:52 AM

5 Which of the following would you expect to see during a nonexplosive eruption?

A hot debris, ash, and gas shooting in the air

B molten rock blowing into the air

☒ C calm lava flows → shield → Hawaii

D violent explosions

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## 6 Pillow lava...

- A forms a brittle crust that would be painful to walk on
- B has a glassy surface with rounded wrinkles
- C usually oozes from a volcano
- ☒ D forms when lava erupts under water

Mar 4-9:55 AM

## 7 Lava with a high viscosity...

- A is runny, almost like water
- ☒ B is thick, like pudding
- C smells like sulphur
- D dries smooth and glassy.

Mar 4-9:55 AM

8 Large blobs of magma that harden in the air are called

- A volcanic ash
- ☒ B volcanic bombs
- C volcanic blocks
- D lapilli

Mar 4-9:56 AM

## 13.2 Review

Grade: 9th  
Subject: Earth Science  
Date: 3/5/13

Mar 4-11:39 AM

1 A funnel-shaped pit near a volcano's central vent is a \_\_\_\_\_.

Mar 4-4:05 PM

2 A large, semicircular depression over a magma chamber is a \_\_\_\_\_.

Mar 4-4:06 PM

3 A wide, flat landform that results from volcanic activity is a lava plateau.

True

False

Mar 4-4:08 PM

4 Which of the following would you expect after an explosive eruption?

A warmer temperatures

B darkened skies

C calm lava flows

D clear skies

Mar 4-4:09 PM

5 A shield volcano...

- A is sometimes a stratovolcano
- B has a jagged surface
- C has gently sloping sides
- D forms when lava erupts underwater

Mar 4-4:10 PM

6 A cinder cone volcano...

- A has gently sloping sides
- B is formed by explosive and nonexplosive eruptions
- C erodes over thousands of years
- D has steep slopes

Mar 4-4:11 PM



7 A combination of explosive and nonexplosive eruptions will create a ...

- A shield volcano
- B composite volcano
- C cinder cone volcano
- D plateau volcano

Mar 4-4:13 PM

8 Volcanically active area that is not near a tectonic plate boundary is a \_\_\_\_\_.

Mar 4-4:15 PM

9 Columns of rising magma are called \_\_\_\_\_.

Mar 4-4:16 PM

10 A dormant volcano ...

- A is currently explosive
- B might erupt again
- C usually erupts once each year
- D has never erupted

Mar 4-4:17 PM

11 A set of deep cracks between tectonic plates is a rift zone.

True

False

Mar 4-4:18 PM

## Chapter 13 Review

Grade: 9th

• Subject: Earth Science

• Date: 3/6/13

Mar 6-4:35 PM

1 When a magma chamber empties a(n) \_\_\_\_\_ results.

caldera

Mar 6-4:37 PM

2 An opening in the Earth's crust through which magma and gases are expelled is called a(n) \_\_\_\_\_.

volcano

Mar 6-4:37 PM

- 3 A set of deep cracks that forms between two tectonic plates that are pulling away from each other is called a(n)

\_\_\_\_\_.

rift zone

Mar 6-4:38 PM

- 4 Parts of tectonic plates that are located above mantle plumes are called hot spots. These are areas that have volcanic activity where there isn't a plate tectonic boundary near by.

Mar 6-4:40 PM

5 Molten rock found deep within the Earth's surface is called magma.

Mar 6-4:41 PM

6 A cinder cone volcano is a small volcano that usually erupts only for a short time.

True

False

Mar 6-4:42 PM

7 A \_\_\_\_\_ volcano is created by a combination of explosive and nonexplosive eruptions.

composite

Mar 6-4:43 PM

8 A funnel shaped pit is a crater.

Mar 6-4:43 PM

9 Cool, stiff lava that forms jumbled heaps of sharp chunks near the vent is called blocky lava.

Mar 6-4:45 PM

10 Pahoehoe lava has a viscosity that makes it flow almost like dripping wax.

Mar 6-4:46 PM



11 Mafic describes magma or rock that is rich in magnesium and iron.

True

False

Mar 6-4:47 PM

12 A characteristic of lava that determines the force of a volcanic eruption is ...

A color

B viscosity

C density

D age

Mar 6-4:48 PM

13 Island arcs form when oceanic lithosphere subducts under ...

- A craters
- B calderas
- C volcanic bombs
- ☒ D oceanic lithosphere

Mar 6-4:50 PM

14 Areas of volcanism within tectonic plates are called...

- ☒ A hot spots
- B cones
- C calderas
- D fissures

Mar 6-4:51 PM

15 Explosive volcanic eruptions commonly result from...

- A mafic magma
- ☒ B felsic magma
- C aa lava
- D pahoehoe lava

Mar 6-4:52 PM

16 Pyroclastic materials that form rounded or spindle shapes as they fly through the air are called...

- A ash
- ☒ B volcanic bombs
- C lapilli
- D volcanic blocks

Mar 6-4:53 PM

17 A cone formed by only solid fragments built up around a volcanic opening is a ...

- A shield volcano
- ☒ B cinder cone
- C composite volcano
- D stratovolcano

Mar 6-4:54 PM

18 Scientists have discovered that before an eruption, earthquakes commonly...

- A stop
- ☒ B increase in number
- C have no relationship to volcanism
- D decrease in number

Mar 6-4:54 PM

- 19 On day 1, a volcano expelled 5 metric tons of sulfur dioxide. On day 2, the same volcano expelled 12 metric tons of sulfur dioxide. What is the percentage increase of sulfur dioxide expelled from day 1 to day 2 (answer is a %)?

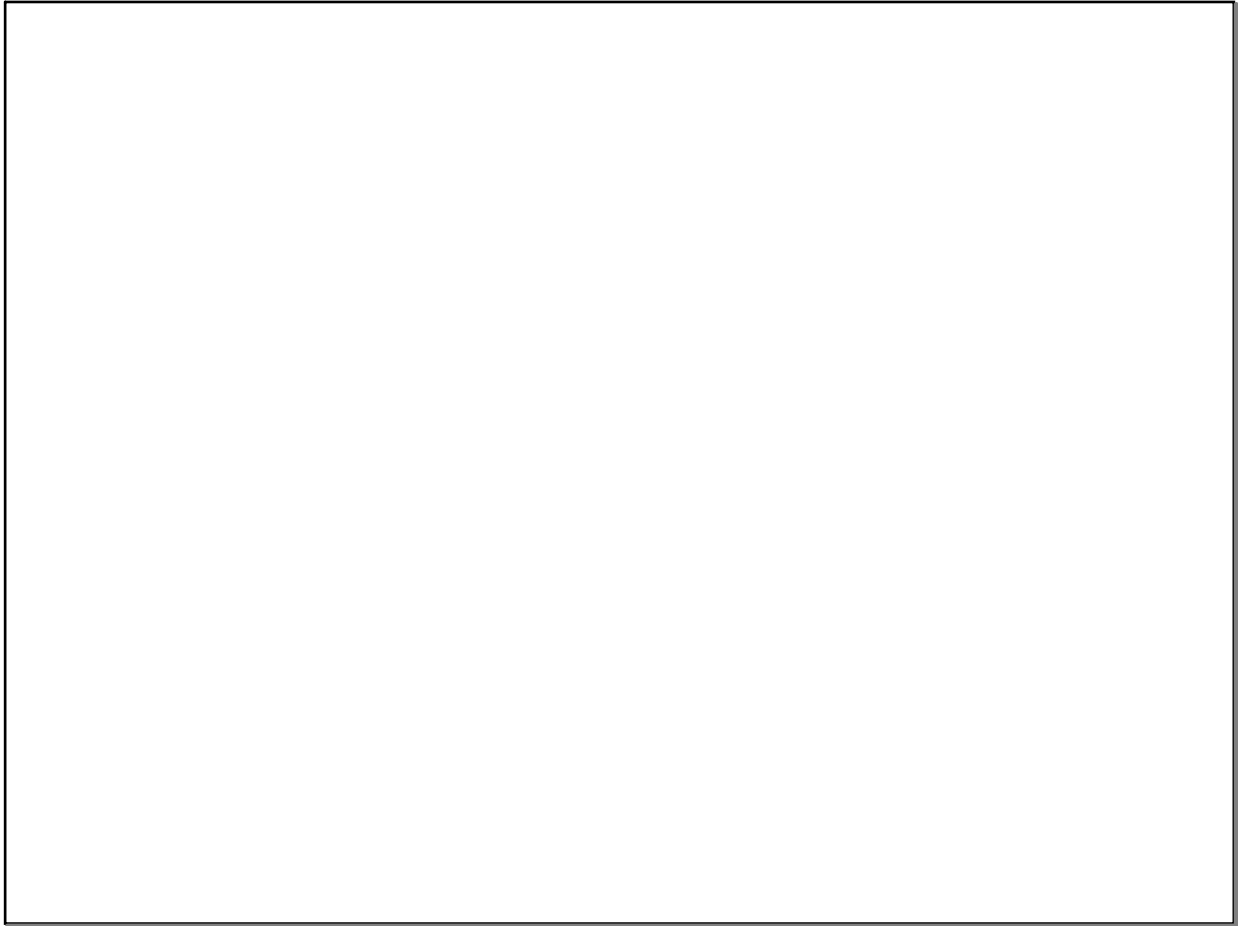
$$\begin{array}{r} \text{Day 2} \quad \text{Day 1} \\ 12 - 5 \\ \hline 7 \\ 5 \end{array} \quad \frac{7}{5} \times 100 = \% \\ 140\%$$

Mar 6-4:57 PM

- 20 A lava flow travels for 7.3 min before it flows into the ocean. The velocity of the lava is 3 m/s. How far did the lava flow travel (answer in km)?

$$7.3 \times 60s = 438s \times 3 \rightarrow \\ 1314m \\ 1.314 km$$

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